

In the Claims:

1. (Original) An electrocardiograph system comprising:
an acquisition element adapted to be coupled to a patient through a set of relatively short leadwires; and
a hand-held, battery powered portable processing element coupled to the acquisition element through a connector cable and controlled through a graphical user interface.
2. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a display.
3. (Original) The electrocardiograph system as in claim 2 wherein the display further comprises a liquid crystal display.
4. (Original) The electrocardiograph system as in claim 3 wherein the liquid crystal display further comprises a color or monochrome graphical display with sufficient resolution to display waveforms.
5. (Original) The electrocardiograph system as in claim 2 wherein the display further comprises a touch screen interface.
6. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a compact flash card or similar memory expansion slot.
7. (Original) The electrocardiograph system as in claim 6 wherein the compact flash expansion slot further comprises a compact flash read only memory disposed in the compact flash card expansion slot.

8. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises an infrared transceiver for communications.

9. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a radio frequency transceiver for communications.

10. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises an audio recording unit.

11. (Original) The electrocardiograph system as in claim 1 wherein the acquisition element further comprises a plurality of signal conditioning circuits.

12. (Currently Amended) The electrocardiograph system as in claim 1 wherein the acquisition ~~unit~~ element further comprises a baseline sway filter.

13. (Original) The electrocardiograph system as in claim 1 wherein the acquisition unit further comprises a pacemaker pulse detector adapted to detect pacemaker signals.

14. (Currently Amended) The electrocardiograph system as in claim 1 wherein the acquisition ~~unit~~ element further comprises analysis and interpretation.